

CIS133 – Homework – Users And Groups

- Unless otherwise specified, all problems must be completed at the **command prompt**.
- Number your answers with the respective problem number
Always provide the exact command(s) used to complete the problem and, when requested, include each command's output. When copying your screen please copy only the command and it's output; I don't want to see anything more.

Please change your terminal window's colors to a white background and black text.

- 1) Create 5 users with the following criteria. Provide all commands and tasks used to complete this problem.
 - Before creating the users configure the default password inactivity setting such that if a user's password expires the account is immediately disabled
 - Usernames should be your initials followed by a two digit number – i.e., my users names would be jca01, jca02, jca03, etc. (Throughout this and future assignments I will refer to your users by their respective numbers – i.e, 01 user, 02 user, etc.)
 - The comment field must include the user's login name.
 - Each user must have a home folder in the default home folder location
 - Set a password for each user
 - Confirm that you are able to login as each of these users.
- 2) Use the tail command to display the last 6 lines of the passwd file. Your answer must include the command and its output.
- 3) Clear the screen and then use the tail command to display the last 10 lines of the shadow file. Your answer must include the command and its output.
- 4) Use the ls command to display the contents of the /home folder. Your answer must include the command and its output.
- 5) The below line is from a shadow file.
 - a. What can you tell me about Martha's password?

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martha:!:14144:0:99999:7:::
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- 6) Assume that you wish to change the default home folder location to /Training and the default shell to /bin/tcsh. In addition, you wish to set an expiration date on each account of 01/01/2016 and the account must be configured to lock 1 day after the password expires. You want all of these settings to be automatic when you add a user account. Provide a detailed explanation of how you would do this and how you would test it. I do not want you to actually do this but, if you choose to do it to test your method, please be sure to set it back before continuing with the other questions in the assignment.

- 7) Configure your 03 user's account to expire on 11/1/2015.
 - a) Your answer must include the command used and its output.
 - b) Display this user's entry from the /etc/shadow file; include only this user's entry in your answer.

- 8) Lock your 04 user's account and then use the passwd command to report the password status on the account. (two commands).
 - a) Your answer must include each command used and its output.

- 9) Unlock your 04 user's account and then use the passwd command to report the password status of the account (two commands)
 - a) Your answer must include each command used and its output.

- 10) Set your 03 user's password so that the user is warned 14 days before the password expires, his/her password expires in 90 days, he/she can login for 2 days with an expired password and he/she cannot change his/her password until the user has had it for 2 days.
 - a) What command did you use?

- 11) Display only the line of text from the shadow file which contains your 03 user's name.
 - a) Your answer must include the command and its output.

- 12) Change the system-wide password policy as follows:
 - Max number of days a user can keep a password should be set to 90 days
 - The minimum of days they have to keep their password should be set to 1
 - They should be warned that their password is expiring 5 days before it expires
 - They should be able to login for only 1 day after password has expired
 - The system should be configured to remember the past 4 passwords for each user.
 - Password complexity must be configured such that the password must have a minimum length of 8, must have a least 1 special character, 1 upper case character, 1 lower case character and must be at least 2 characters different than the previous password.
 - a) List the names of the files that you modified to configure these settings and show me the settings configured in the respective files.
 - b) Explain exactly how you confirmed that your settings worked.
 - c) Right now, if you try changing a user's password as root, you are not required to adhere to these policies. Explain what you would need to do to enforce these settings for the root user.

- 13) Force your 05 user to change his/her password at next logon and confirm that it worked.
 - a) What command did you use?
 - b) Include a screenshot which confirms it worked.

- 14) Create a group named cis64
 - a) What command did you use?
- 15) Rename the cis64 group – the new name should be cis133.
 - a) What command did you use?
- 16) Make each of your users (01 thru 05) a secondary member of this group.
 - a) What command did you use?
- 17) Display only the line of text from the group file which confirms that your 5 users are members of your cis133 group.
 - a) Your answer must include the command and its output.
- 18) Create another group. Name this one CISStudents and make users 01 and 02 secondary members of this group. Ensure, when done that these two users are still secondary members of the CIS133 group.
 - a) What 2 commands did you use? - you should have 1 to create the group and 1 to establish the group membership
 - b) Display the CIS133 entry from the /etc/group file.
 - c) Display the CISStudents entry from the /etc/group file.
- 19) Make the cis133 group the default group for your 04 user.
 - a) What command did you use?
 - b) Display the line of text from the appropriate file to confirm that you successfully made the change.
- 20) Delete the 05 user and his/her home folder.
 - a) What command did you use?
- 21) Create a directory at the root of the drive. Name it users.
 - a) What command did you use? Include your present working directory as part of your answer.
- 22) Modify the 01 and 02 user accounts; their home directory should be moved to the users folder and the home directory value should be changed to reflect this new location. These changes must be done using the usermod command.
 - a) What is the exact command you used?
- 23) Display the last 10 lines of the passwd file. Your answer must include the command and its output.
- 24) Use the ls command to display the contents of the /users folder. Your answer must include the command and its output.
- 25) Use the pwck command to check the integrity of the passwd and shadow files.
 - a) Your answer must include the command and its output.

26) Assume that you wanted to ensure that every user that is created, *from this point on*, has a folder in his/her home folder named temp. How could you do this? Be very specific in your answer.